



B.Tech III Semester Supplementary Examinations, December 2024

LINUX PROGRAMMING
(INFORMATION TECHNOLOGY)

Maximum Marks: 70

Date:09.12.2024

Duration: 3 hours

- Note:
- 1.This question paper contains two parts A and B.
 2. Part A is compulsory which carries 20 marks. Answer all questions in Part A.
 3. Part B consists of 5 Units. Answer any one full question from each unit which carries 10M.
 4. Each question carries 10 marks and may have a, b, c, d as sub questions.

Part-A

All the following questions carry equal marks (10X2M=20) Marks		CO	Bloom Tx
1	Define about kernel.	1	L1
2	Define about linux.	1	L1
3	Define a file.	2	L1
4	Define about link.	2	L1
5	List the process attributes.	3	L1
6	Write about process?	3	L1
7	Define another name for FIFO.	4	L1
8	Define semaphore.	4	L1
9	Write the syntax of socket() function?	5	L1
10	Write about Shared memory example?	5	L1

Part-B

Answer All the following questions. (5X10M=50Marks)		CO	Bloom Tx
11	Differentiate windows OS and Linux OS. [10M]	1	L2
OR			
12	Define about Security by file permissions? [10M]	1	L2
13	Explain in detail about Linux file system structure? [10M]	2	L2
OR			
14	Explain following system calls [4+4+2] a)Open b) creat c)read	2	L2
15	Explain about kernel support for process.? [10M]	3	L2
OR			
16	Explain the following system call with syntax? [10M] a) alarm b) pause c)abort	3	L2
17	a) Difference between unnamed and named pipe [5M] b) popen and pclose library functions? [5M]	4	L2

	OR		
18	Explain the following System Calls a)semget b)semop c)semctl	[2+4+4]	4 L2
19	Explain IPC over a network?	[10M]	5 L2
	OR		
20	Write a short note on APIs for Shared Memory.	[10M]	5 L2